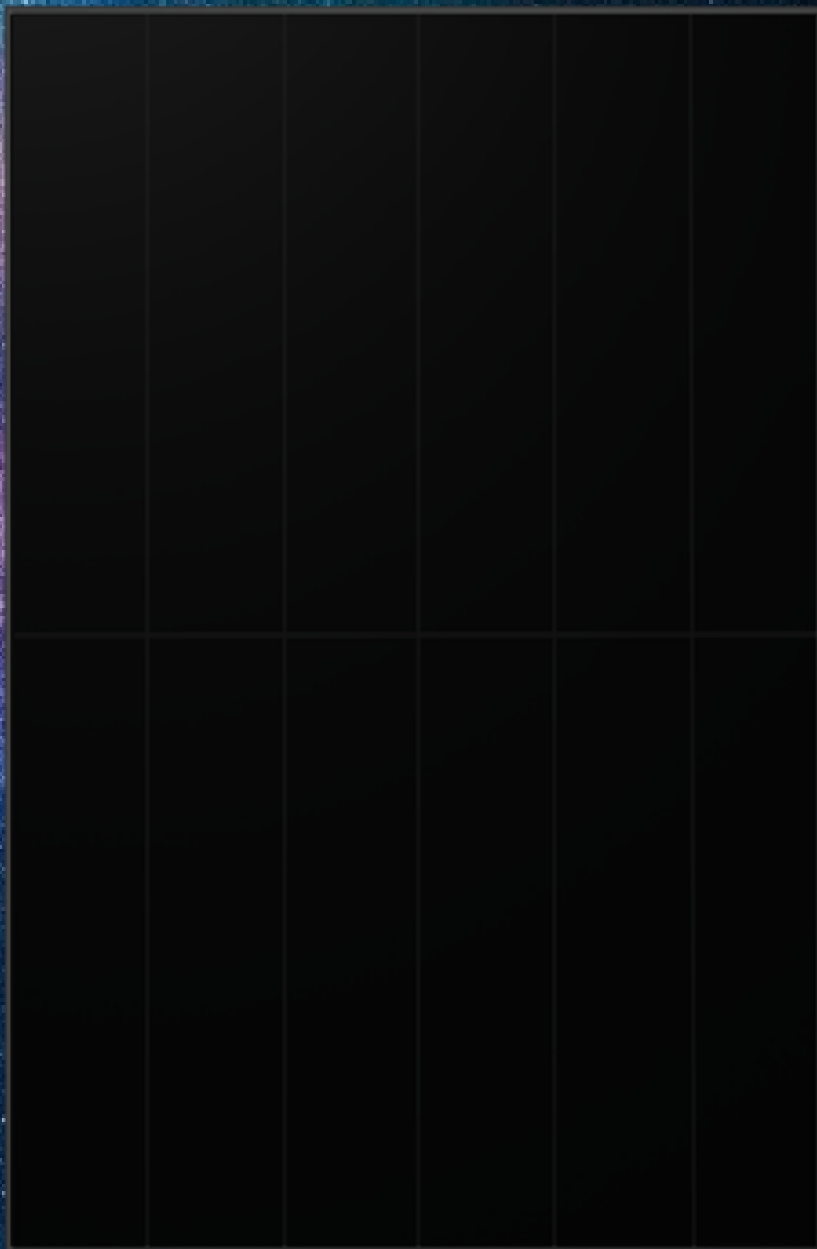


Green Hero

470_w ENDLESS

Ultra Black BC Module with dual Glass



-  Superior Temperature Coefficient
-  Excellent Micro-crack Resistance
-  Higher Generated Energy
-  Higher Reliability
-  Partial Shading Optimisation
-  High Temperature Restriction
-  Lower BOS
-  Extraordinary Aesthetic Design

24.3%

Module Efficiency up to

30^{Years}

Product Workmanship Warranty

30^{Years}

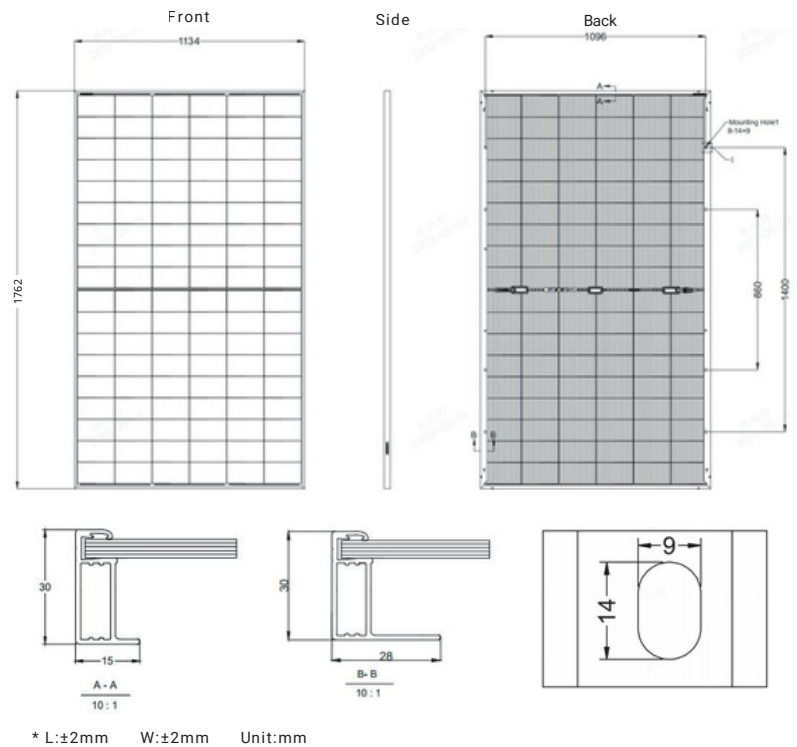
Output Power Warranty

≤1% First-year Degradation | ≤0,35% Annual Degradation

- Operating Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Power Tolerance $0 \sim +3\%$
- Junction Box IP65
- NOCT $45 \pm 2^{\circ}\text{C}$
- Maximum Series Fuse Rating 30A
- Bifacial Factor $70 \pm 5\%$
- Maximum System Voltage 1500V(IEC)

Mechanical Parameters

Cell Type	BC
No. of cells	108 (6x18)
Glass	Dual Glass, 2.0 + 2.0mm Coated Semi Transparent Glass
Frame	Black Anodized Aluminum
Output Cables	1x4mm , (+)300mm, (-)200mm or Customized Length
Weight	24,3 kg (53.57 lbs)
Dimensions	1762x1134x30mm
Connector	MC4 Compatible
Protection Class	Class II
Fire Rating	IEC Class A
Packaging	37 pcs per pallet 222 pcs per 20' GP, 962 pcs per 40' HC



Electrical Characteristics (STC Test)

Module Type	460		465		470		475		480		485	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (pMax/W)	460	346	470	354	475	358	465	350	480	362	485	366
Open-Circuit Voltage (Voc/V)	41.06	38.77	41.18	38.89	41.24	38.95	41.12	38.83	41.30	39.01	41.36	39.07
Maximum Power Voltage (Vmp/V)	34.62	32.69	34.74	32.81	34.80	32.86	34.68	32.75	34.96	32.92	34.92	32.98
Short-Circuit Current (Imp/A)	14.25	11.52	14.32	11.58	14.36	11.62	14.29	11.55	14.41	11.66	14.47	11.70
Maximum Power Current (Imp/A)	13.29	10.61	13.54	10.80	13.66	10.90	13.41	10.71	13.78	11.00	13.90	11.10
Module Efficiency (%)	23.1	23.1	23.6	23.6	23.8	23.8	23.3	23.3	24.1	24.1	24.3	24.3

1. STC: Irradiance 1000W/M², Cell Temperature 25°C, AM=1.5 2. NOCT: Irradiance e 800W/M², Ambient Temperature 20°C, AM=1.5, Wind Speed 1M/S

Temperature Ratings (STC)

Temp. Coefficient (Isc) +0.05%/°C

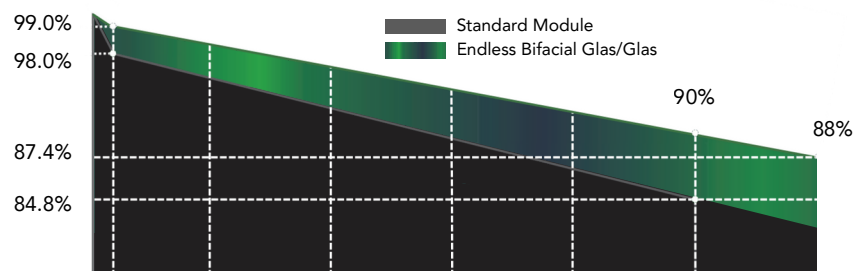
Temp. Coefficient (Voc) -0.22%/°C

Temp. Coefficient (Pmax) -0.26%/°C

Mechanical Loading

Front, Max. Static Loading 5400Pa

Rear, Max. Static Loading 2400Pa



Conventional Product Warranty (up to 15y.)

Green Hero's Product Workmanship Warranty (from 30y.)